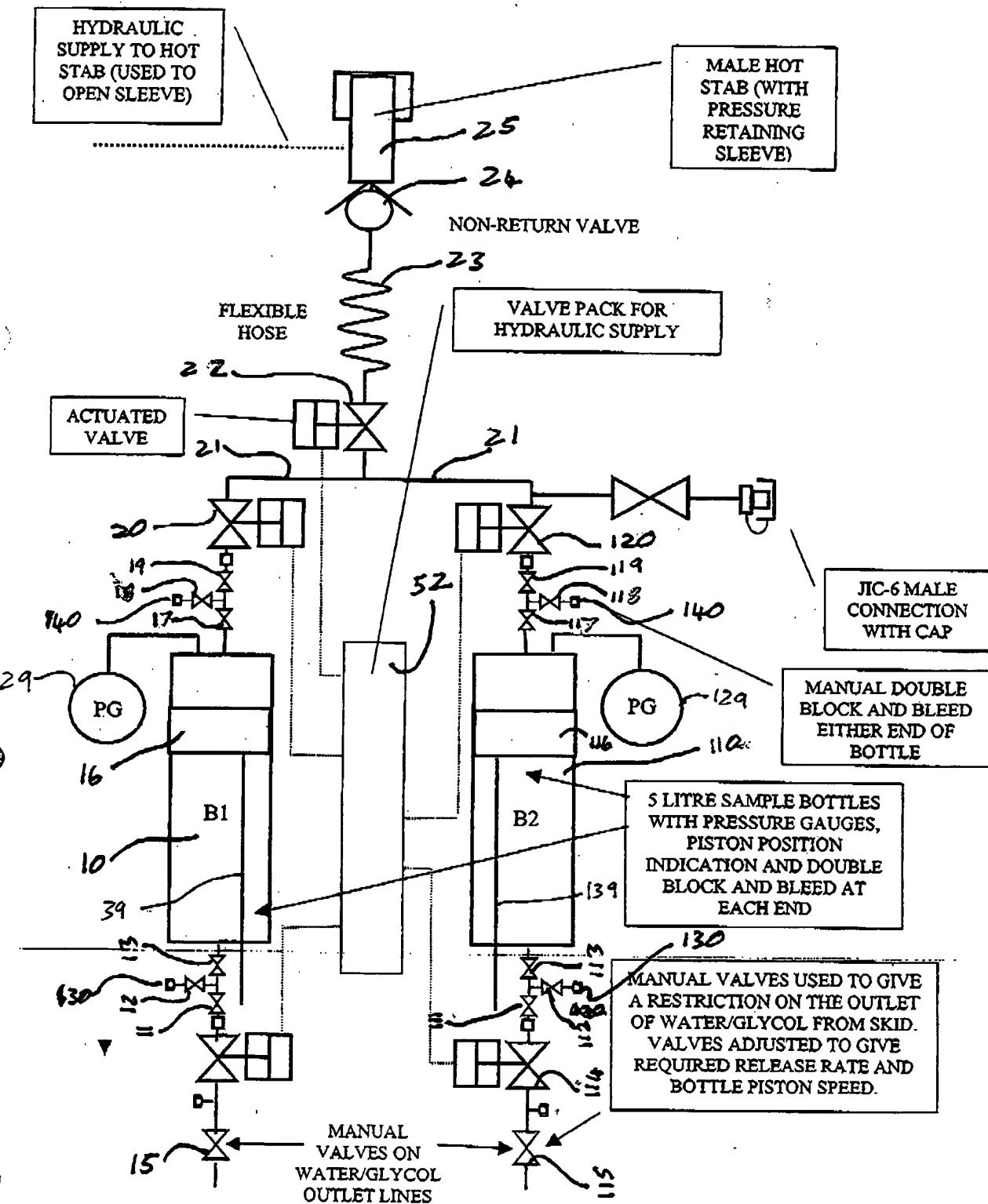


## **6. SKETCH OF SAMPLING EQUIPMENT**



# EASTERN TROUGH A PROJECT

## Subsea Production Sampling from Machar and Monan Manifolds

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## Sketch 1 – Onshore Hydrotest

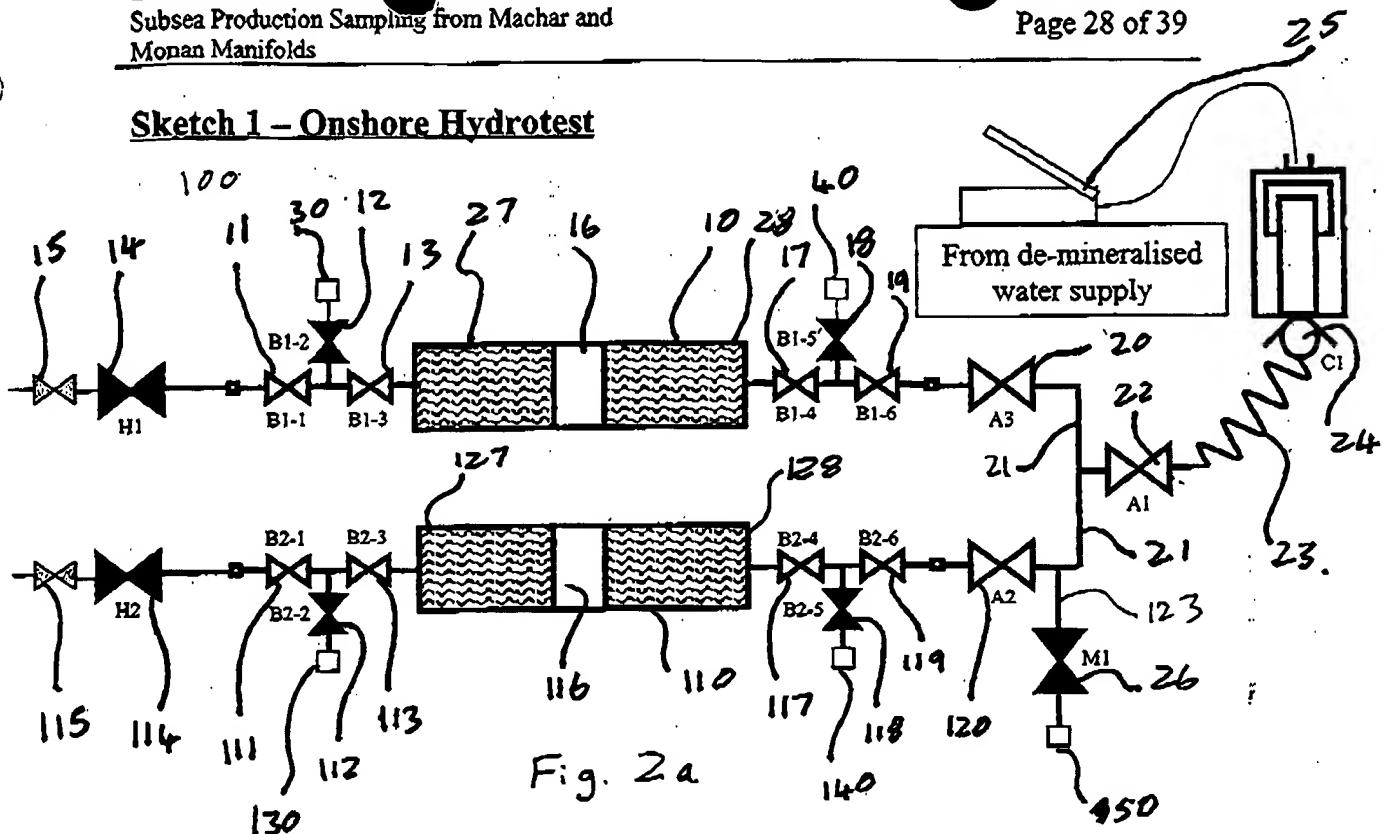


Fig. 2a

### Sketch 1 a – Nitrogen Leak Test

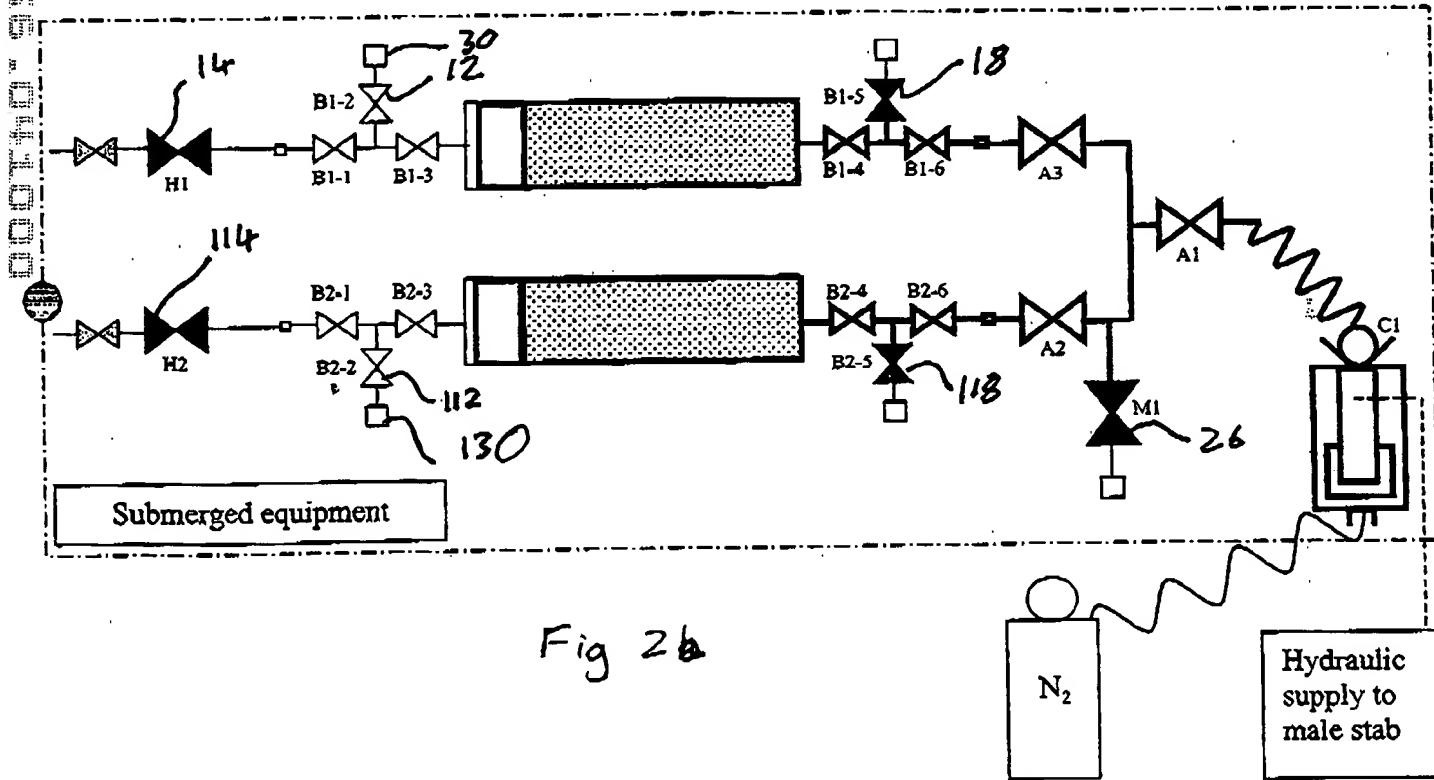


Fig 2b

**EASTERN TROUGH PROJECT**  
**Subsea Production Sampling from Machar and**  
**Monan Manifolds**

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**Sketch 2 – Bottle Fill and System Purge**

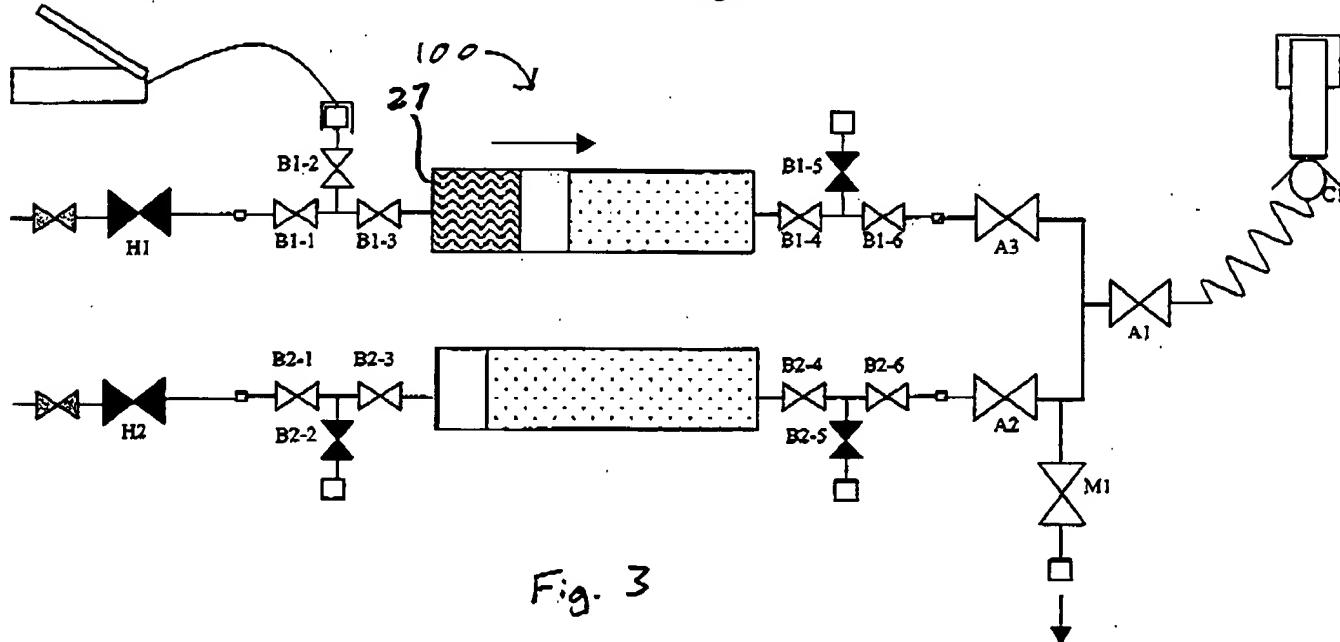


Fig. 3

**Sketch 3 – System Transport Condition**

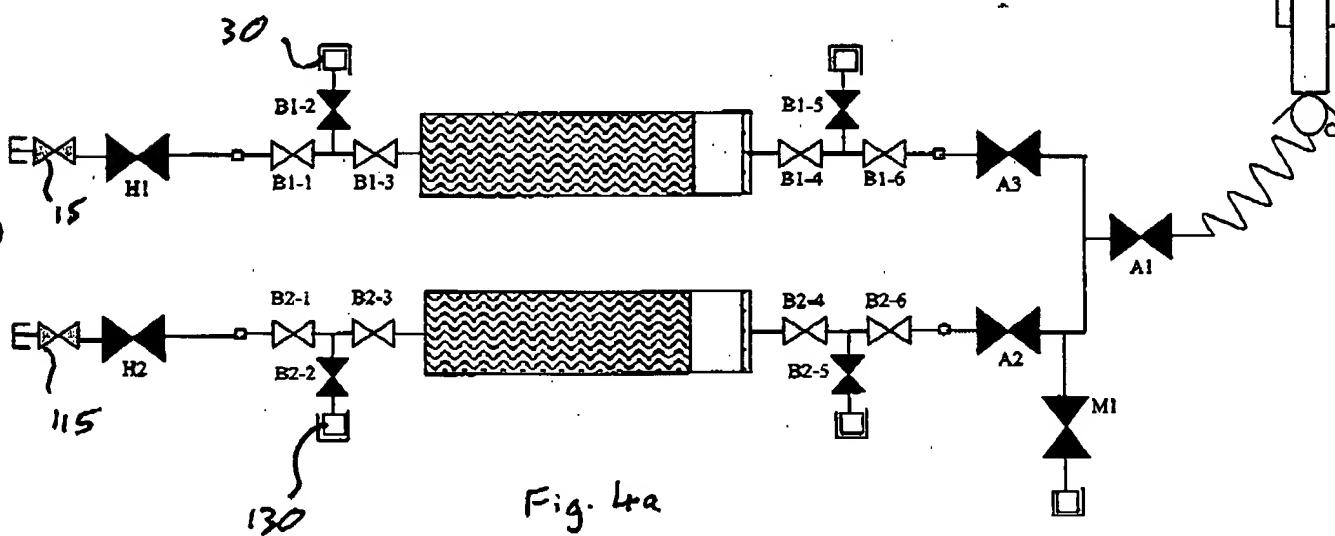


Fig. 4a

**Sketch 3 a – Spare Sample Bottle Transport Condition**

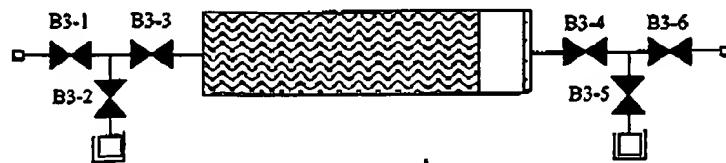


Fig. 4ab

Sketch 4 – Prior to Dive

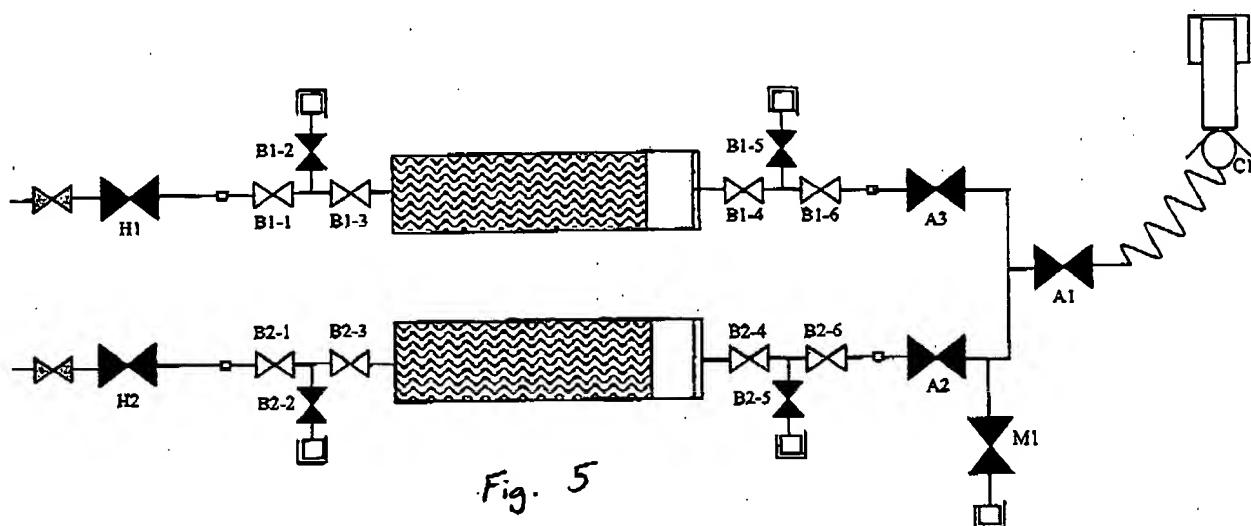


Fig. 5

Sketch 5 – After ROV Docked at Panel

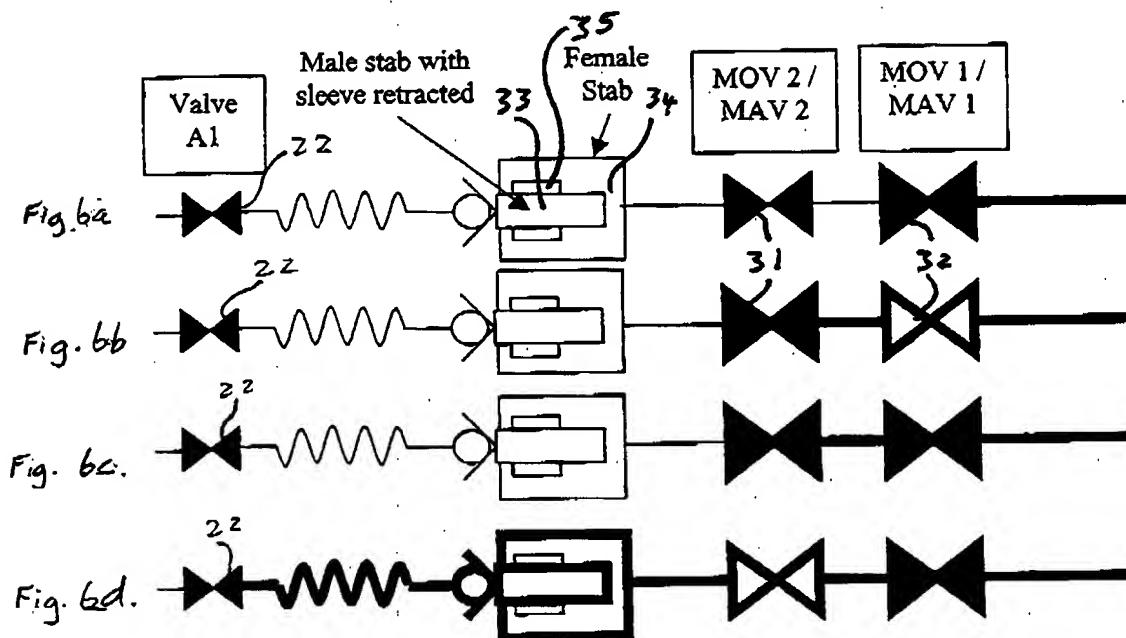


Fig 6a-d

Sketch 6 – Start of Sampling Operation

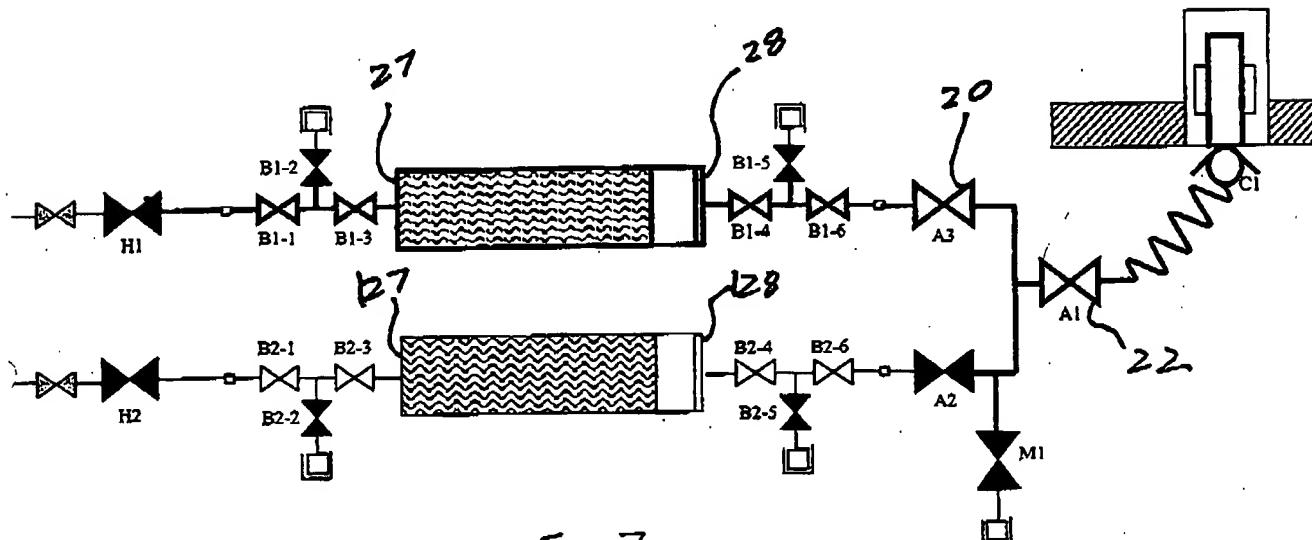


Fig. 7

Sketch 7 – Sampling Into Bottle B1

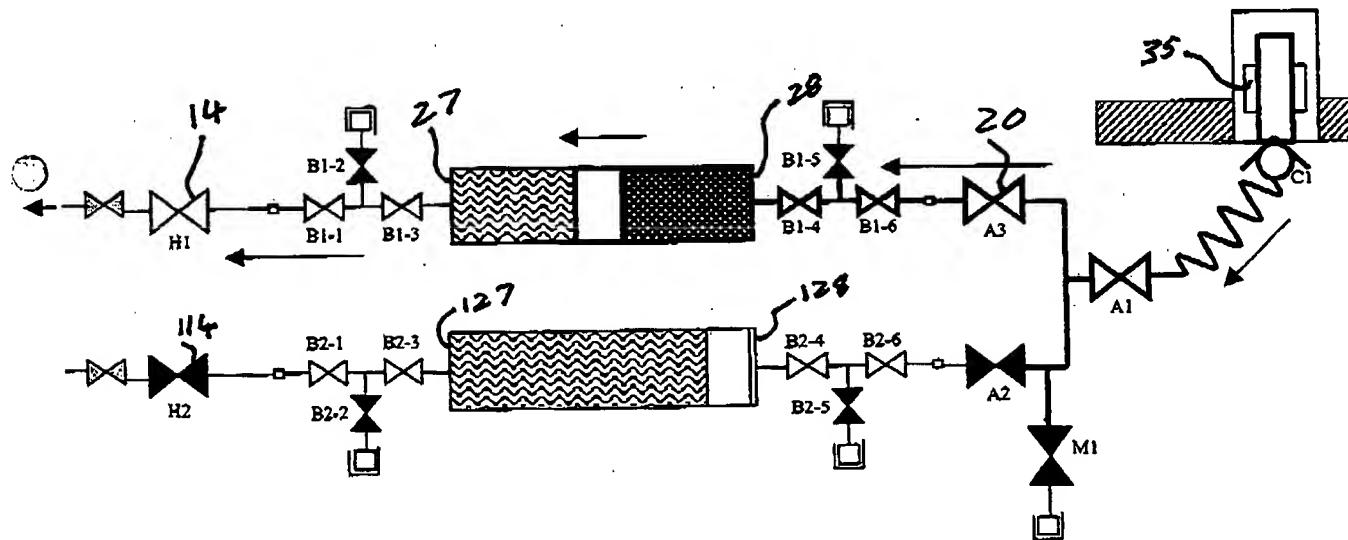


Fig. 8

EASTERN TROUGH A PROJECT  
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Monan Manifolds

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Sketch 8 – Sampling Complete, Recovered to Surface

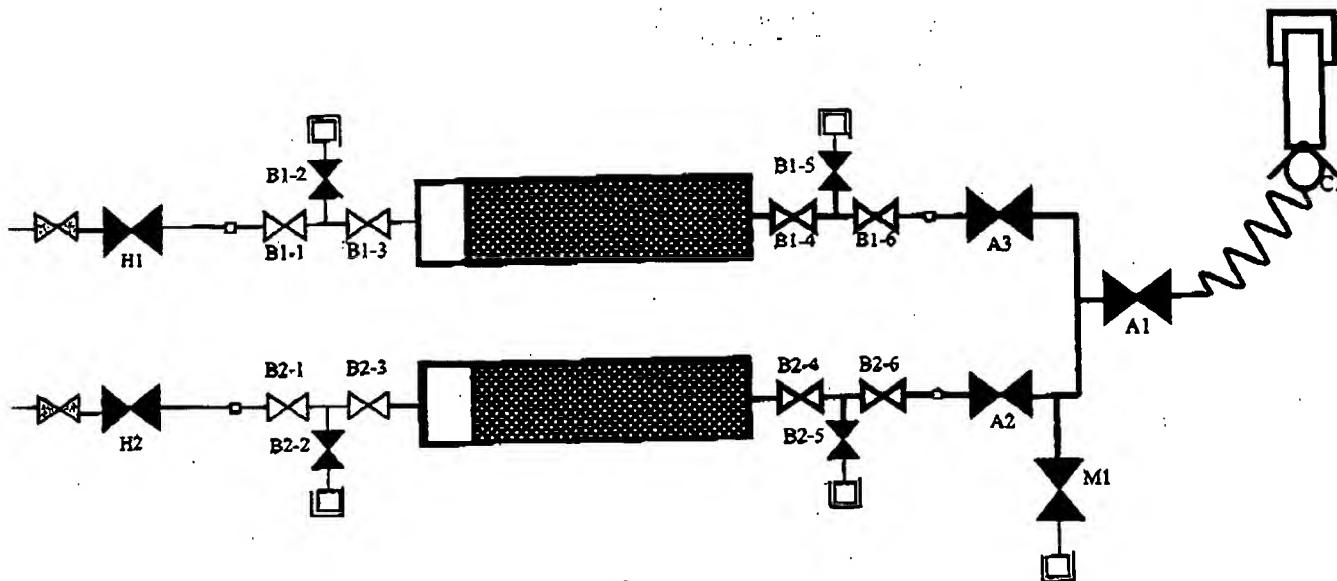


Fig. 9

Sketch 9 – Venting of Bottle B1 to Slop Tank

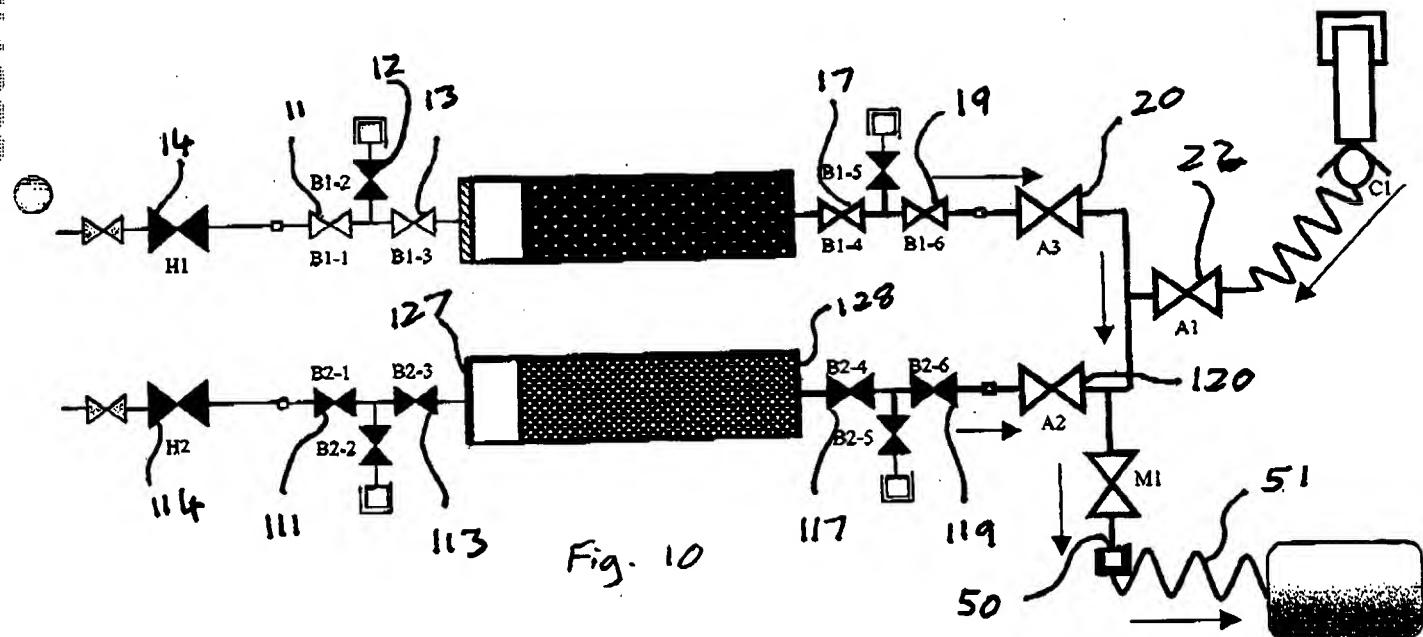


Fig. 10

Sketch 1 - Filling Back of Bottle B1 with Water/Glycol

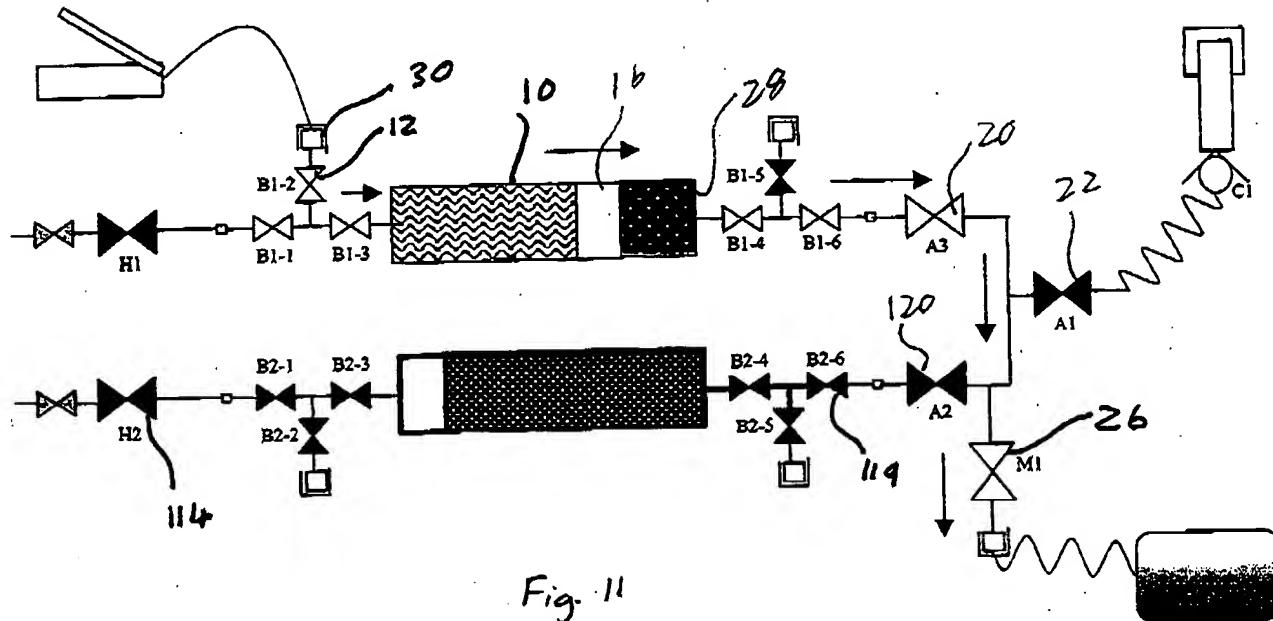


Fig. 11

Sketch 1 - Venting Pipework Either Side of Bottle B2 Prior to Removal

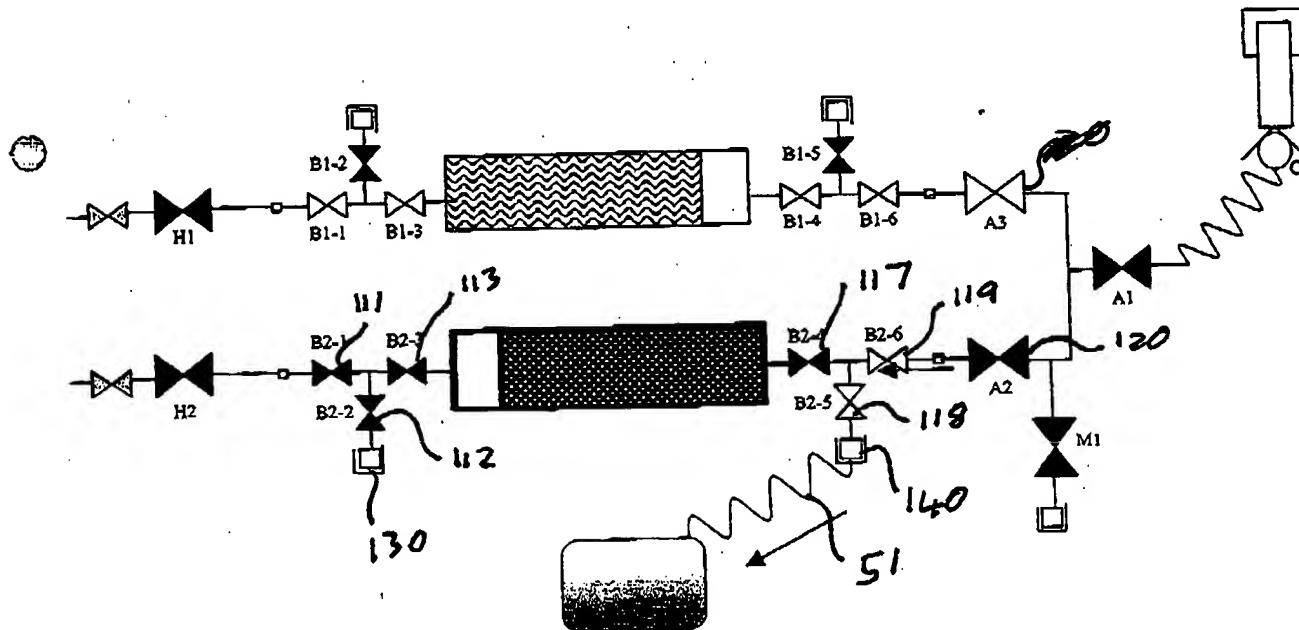


Fig. 12.

Sketch 1 - Removal of Bottle B2

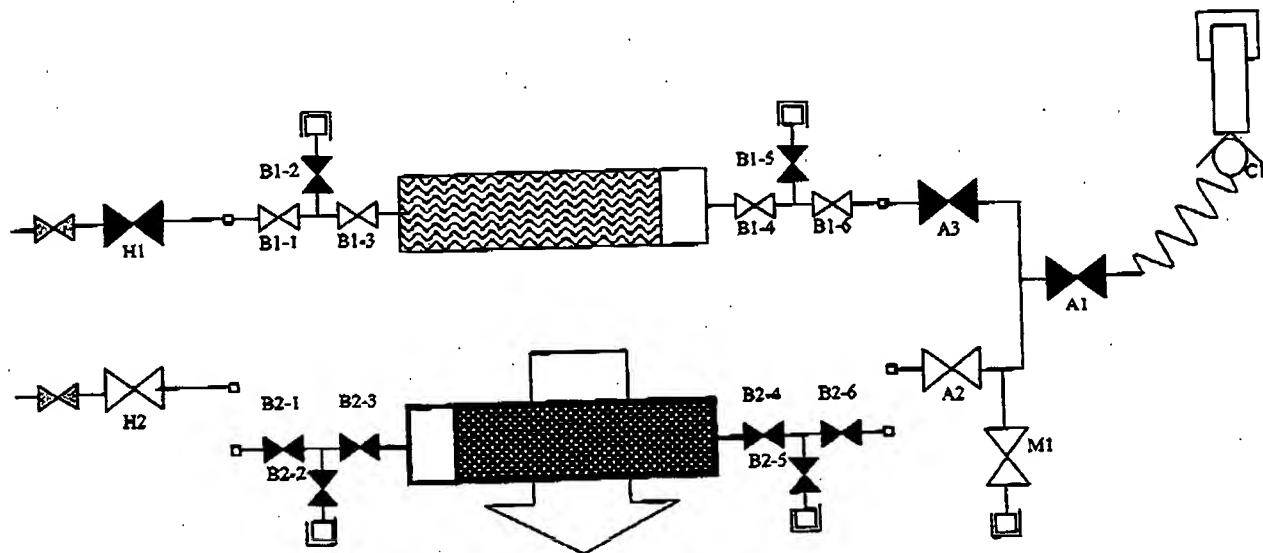


Fig. 13

Sketch 1 - New Sample Bottle Fitted, Flushing of Pipework

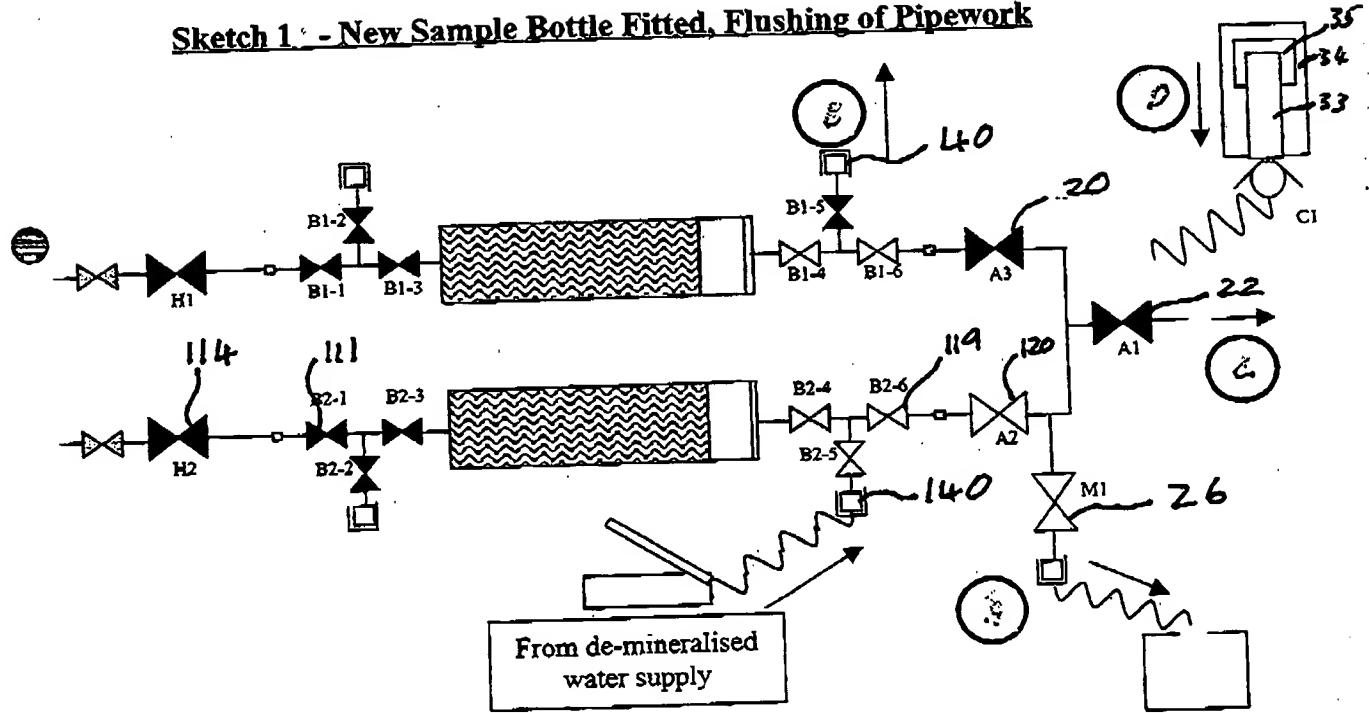


Fig. 14

Sketch 1 - Purging of Pipework with Nitrogen

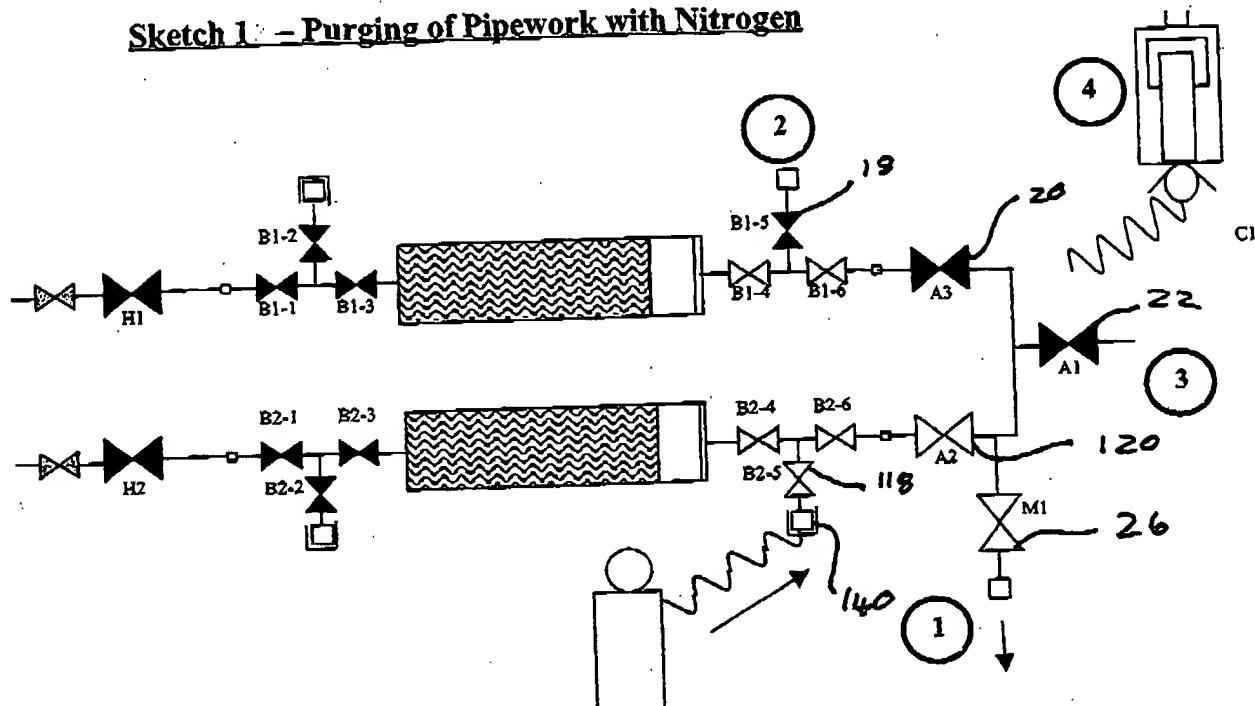


Fig. 15

Sketch 1 - Nitrogen Fill of Skid

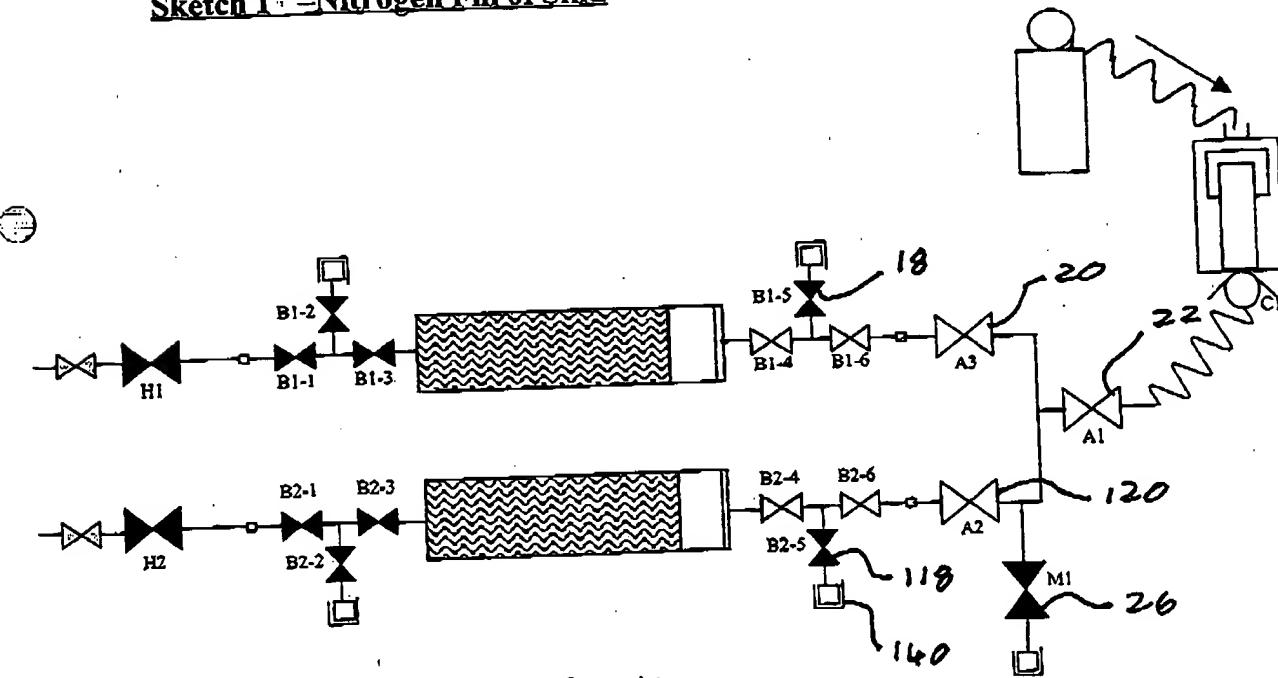


Fig. 16

EASTERN TROUGH AREA PROJECT  
Subsea Production Sampling from Machar and  
Monan Manifolds

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Sketch 1 – Leak Test of Bottle Connection Points

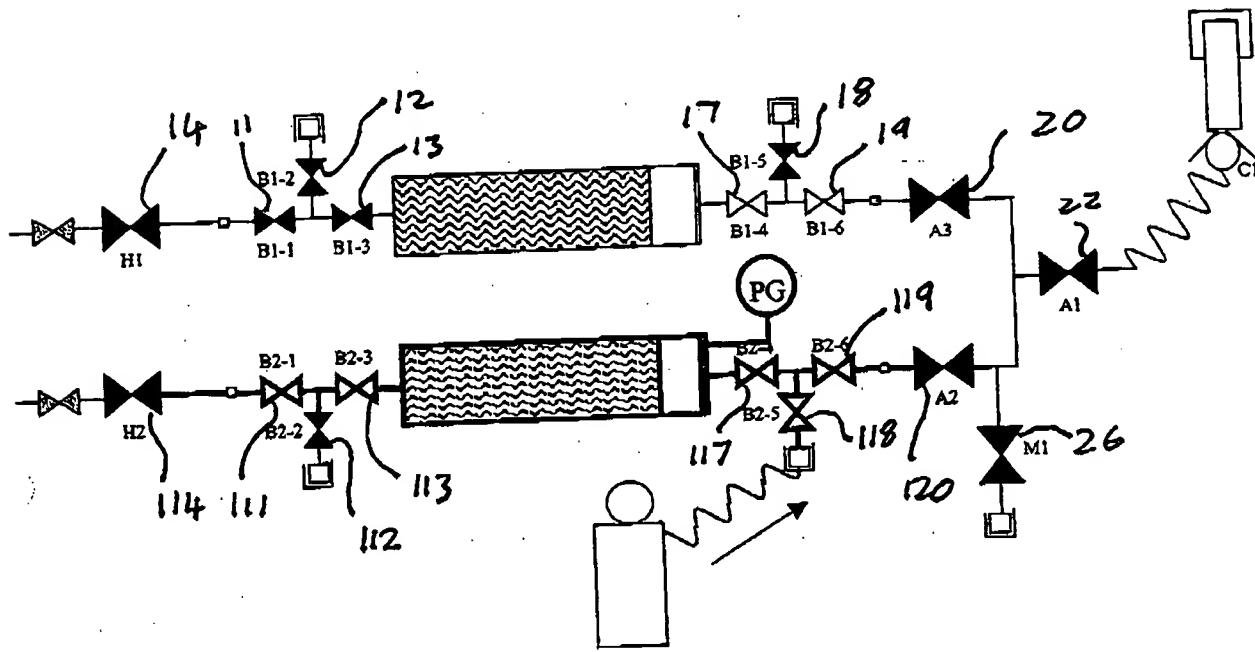


Fig. 17

0 9 8 6 5 4 3 2 1 0 0 0



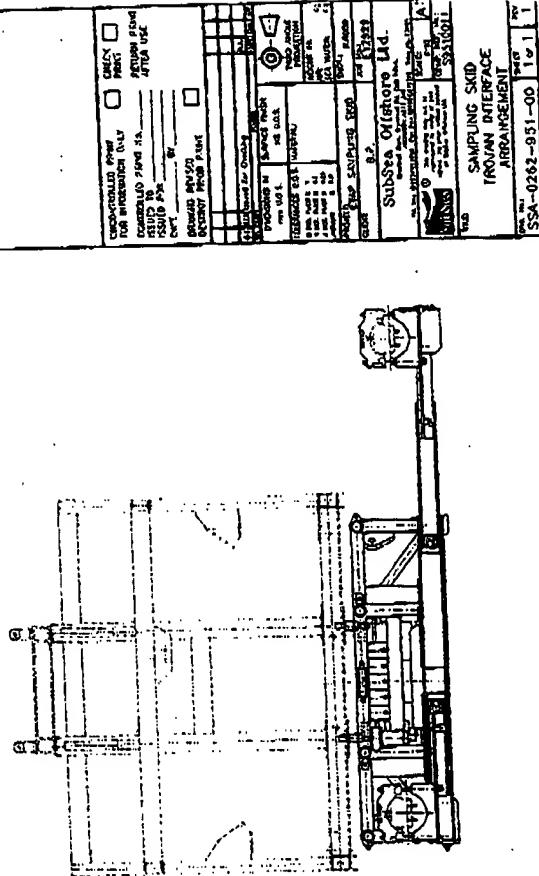
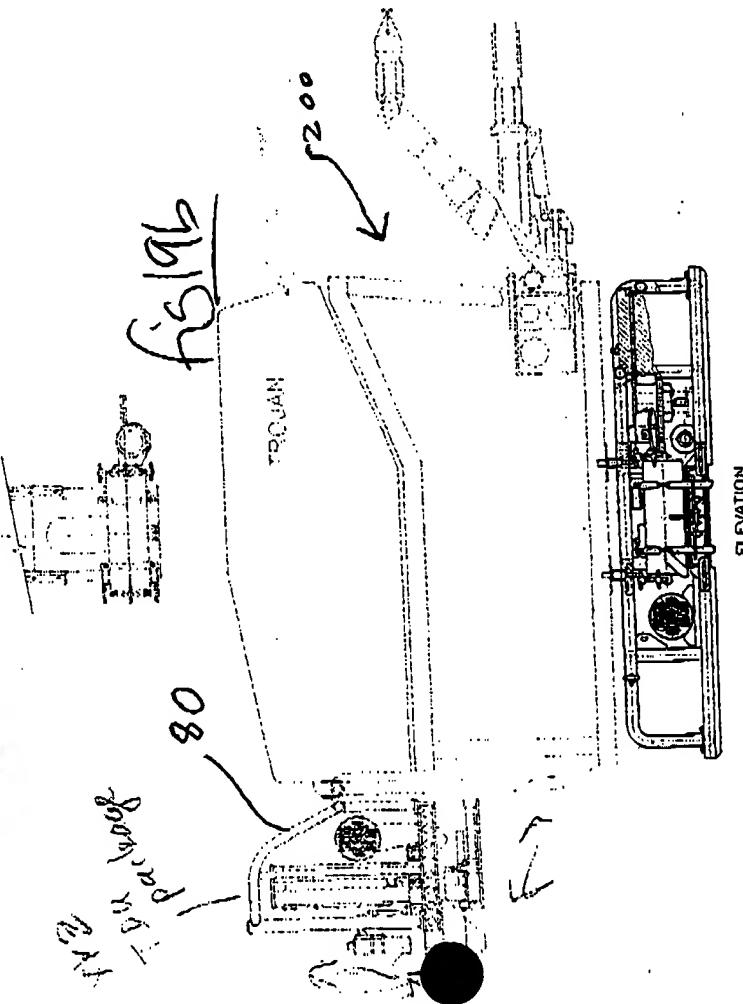
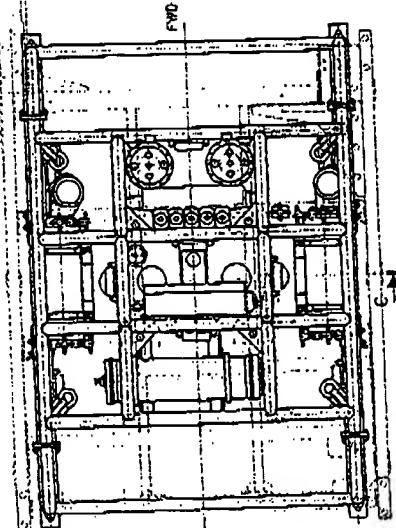
Educaç

fig 1c

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1. All Outcomes in 84% of cases.  
2. Scoliosis can occur in 80% of cases.  
3. Localized areas of 20-30 cm.  
4. Normal function.

2000 AO: 554-0134-410-33

JACK DISCONNECT ASSY  
RC NO: SSA-0262-461-00  
TO BE MOUNTED IN A SUITABLE  
LOCATON AT THE FRONT OF THE ROV

MOSES 10. 86 FREEZ 10

Fig 20a

The diagram illustrates a technical drawing of a 100.3 mm position envelope. It features a central rectangular area with diagonal hatching. To the left, there is a circular opening labeled 'OPENING' with a dimension of '2.20'. Above the central area, a vertical line is labeled 'DOORING FACE' with a dimension of '1.05'. On the right side, a vertical dimension line indicates a total height of '5.25'. The bottom edge of the central area has a dimension of '6'. A small circle at the bottom left is labeled 'CRS'. The entire drawing is enclosed in a rectangular border.

This technical drawing illustrates a low-tension gear assembly. It features a central gear labeled '1' with a diameter of 62.3 mm. This gear is mounted on a shaft labeled '2'. A housing labeled '3' contains a bearing labeled '4'. The assembly is secured by a lock washer labeled '5'. Various dimensions are indicated: 110 mm for the overall width, 210 mm for the distance from the center of the gear to the end of the housing, and 70 mm for the height of the housing. The drawing also includes labels for 'LOW TENSION' and 'LOCKING PLATE'.

SEE  
NOTE 2  
(1)  
OUTLINE OF CAMERA

ONE  
A.S.T.Y. MA-3000X  
D.C.  
13  
CHORE  
LTD.

1 Root No 1

A technical drawing of a low torque tool assembly. It features two circular components labeled '62' and '68'. A dimension line indicates a width of '120' between the centers of these components. To the right, a vertical dimension line shows a height of '20C'. Above the top component '62', there is a label 'LOW TORQUE TOOL AND' followed by 'LOW TORQUE' on a separate line. On the far right, there is a vertical stack of four circles labeled '63'.

A technical drawing of a mechanical assembly, likely a pump or motor unit. The drawing shows various components like a flywheel, a belt drive, and a housing. Dimension lines indicate widths of 125 and 105. A label 'Fig.' is at the top right.

A technical line drawing of a mechanical assembly. It features a central vertical housing with a slot on its side. A horizontal shaft extends from the right side of the housing. On the left side, there is a gear-like component. The drawing uses fine lines and cross-hatching to indicate depth and material.

A technical diagram showing a mechanical assembly. It features two large circular components, one labeled '66' and the other '67', which appear to be bushings or bearings. A metal bracket, labeled '1D-' at its top, is attached to the side of the larger component '66'. The entire assembly is mounted on a base plate.

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1. TOP AND BOTTOM COVERS ON SNACK ART  
2. NO LID FOR SNACK

3. LUMS L20 OPEN 111 & TELETYPE CABIN  
4. OTHER 110 MFT SCREEN ON GATEWAY  
5. TELEPHONE CABIN ACCESSORIES 1101 PAS  
6. TELEPHONE CABIN 1101 PAS  
7. TELEPHONE CABIN 1101 PAS  
8. TELEPHONE CABIN 1101 PAS  
9. TELEPHONE CABIN 1101 PAS  
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20. TELEPHONE CABIN 1101 PAS

